



## Technical information



### Your current product variant

Design	E1	Without central rip
Bore type	Z	Cylindrical
Cage	JPA	Sheet metal cage
Radial internal clearance	C4 (Group 4)	Internal clearance larger than C3
Relubrication	Standard	
Spherical roller bearing for vibrating screens	T41A	For vibrating screens

### Main Dimensions & Performance Data

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	33 mm	Width
$C_r$	156.000 N	Basic dynamic load rating, radial
$C_{0r}$	149.000 N	Basic static load rating, radial
$C_{ur}$	13.500 N	Fatigue load limit, radial
$n_G$	7.600 1/min	Limiting speed
$n_{gr}$	5.500 1/min	Reference speed
$m$	1,042 kg	Weight



### Mounting dimensions

$d_{a \min}$	49 mm	Minimum diameter shaft shoulder
$D_{a \max}$	81 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1,5 mm	Maximum recess radius

### Dimensions

$r_{\min}$	1,5 mm	Minimum chamfer dimension
$D_1$	76 mm	Bore diameter outer ring
$d_2$	52,4 mm	Raceway diameter of the inner ring
$d_s$	3,2 mm	Diameter lubrication hole
$n_s$	6,5 mm	Width of lubricating groove

### Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	200 °C	Operating temperature max.

### Calculation factors

$e$	0,36	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	1,86	Dynamic axial load factor
$Y_2$	2,77	Dynamic axial load factor
$Y_0$	1,82	Static axial load factor



### Characteristics

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Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed



Static angular error and misalignment



Dynamic angular error and misalignment